Introduction

Pall’s new Ultipleat Plus metal fiber filters employ Pall Corporation’s unique “Laid Over Pleat” technology to offer extended service life to your process applications. This upgraded version of the Ultipleat candle element also utilizes a patented support mesh design for improved flow channels allowing for a much lower resistance to flow. The customizable filter elements can either be retrofitted to an existing housing or can be specially designed for the needs of your specific application. The Ultipleat Plus is great for applications with high temperature and high dirt-holding capacity requirements and for those that are looking to extend the on-stream life of their filters.

• Ideal for polymer melt filtration applications
• Available in a range of media grades and materials to best suit the needs of your specific application
• Greater surface area with Pall’s proprietary laid-over pleat geometry allowing for even flow distribution and more dirt-holding capacity
• 25-50% longer on-stream life than traditional fan pleat candles
• Shorter residence times and narrower residence time distribution
• Retention ratings from 7 micron and up
• Manufactured under ISO 9001 quality system

Typical Applications

Ultipleat Plus candles are recommended for polymer melt applications where fine filtration is required and where an increase in on-stream life is desired. They are also beneficial for applications where a lower residence time and/or a smaller residence time distribution is needed. Ultipleat Plus candles can be used with a variety of polymers, including, but not limited to:

• Polyester (PET)
• Nylon (PA 6, PA6,6, etc.)
• Polyurethane
• Carbon Fiber Precursor (PAN)
• Recycled Polymers (rPET, etc.)
• And many more!

Comparative Performance

DELTA P

ON STREAM LIFE

Ultipleat Plus polymer candle
Fan pleat candle
### Product Benefits

**Features**
- Laid Over Pleat
- Layered Construction

**Advantages**
- Larger surface area
- Embossed mesh with flow channels
- Customizable media

**Benefits**
- Up to 50% longer on-stream life
- Higher dirt-holding capacity from uniform use of filter area
- Reduced pressure differential resulting in longer on-stream life

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**Features**
- Mesh Layer
- Core
- Filter Medium

**Advantages**
- Even flow distribution
- Customizable media

**Benefits**
- Fewer changeovers, cleanings, polymer waste produced resulting in significant cost savings
- Lower residence time resulting in less particulate formation during processing
- Narrower residence time distribution leading to more consistent and particle free product

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**Performance Specifications**
- Standard filter grades: 7 µm and up
- Maximum differential pressure: 128 bard (1850 psid)
- Maximum operating temperature: 330°C (626°F)

**Product Specifications**
- Standard materials of construction: 304, 304L, 316, 316L
- Standard Dimensions (nominal):
  - Outside Diameters: 1.375” – 2.75”
  - Lengths: 26 inch (66 cm) Sections

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